

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,874	10/30/2003	Yuka Hayami	032070	6663
38834	7590 07/22/2005		EXAM	INER
	AN, HATTORI, DANIE	CHEN, KI	CHEN, KIN CHAN	
SUITE 700	CTICUT AVENUE, NW		ART UNIT	PAPER NUMBER
WASHINGTO	WASHINGTON, DC 20036		· 1765	

DATE MAILED: 07/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summany	10/695,874	HAYAMI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kin-Chan Chen	1765				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) This	This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1-16</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.	•				
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119	,	•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
•						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date <u>103003</u> .	6)					
J.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	tion Summary	Part of Paper No./Mail Date 072105				

Art Unit: 1765

DETAILED ACTION

This application is in condition for allowance except for the following formal matters:

Some editorial corrections (no space between two words) are required in the specification and claims, for examples, claim 1, line 8; specification, page 15, second line from the bottom.

Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

The following is an examiner's statement of reasons for allowance:

The references of record do not teach or suggest a method comprising: forming a first dopant diffused region using first resist and the gate electrode as a mask, performing first ashing, forming a second dopant diffused region using second resist, the gate electrode, and sidewall as a mask, performing second ashing. The ashing processing time of the first ashing is shorter than that of the second ashing (claims 1-3).

forming a first dopant diffused region using first resist and the gate electrode as a mask, performing first ashing using oxygen; forming a second dopant diffused region using second resist, the gate electrode, and sidewall as a mask, performing second ashing using a mixed gas of oxygen and another reaction gas (claims 4-6).

forming a first dopant diffused region using first resist and the gate electrode as a mask, performing first ashing and first chemical processing to remove the first resist;

Art Unit: 1765

forming a second dopant diffused region using second resist, the gate electrode, and sidewall as a mask, performing second ashing and second chemical processing to remove the second resist. The chemical processing time of the first one is shorter than that of the second one (claims 7-11).

forming a first dopant diffused region by implanting a dopant in the substrate with a mask and the gate electrode, performing first chemical liquid processing to clean the substrate; forming a second dopant diffused region by implanting a second dopant in the substrate using the gate electrode and sidewall as a mask, performing second chemical liquid processing to clean the substrate. The chemical liquid processing time of the first one is shorter than that of the second one (claims12-16).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kin-Chan Chen whose telephone number is (571) 272-1461. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

Art Unit: 1765

information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

July 21, 2005

Kin-Chan Chen Primary Examiner Art Unit 1765

K-C C